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Letter from the Editor

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Note from the Editorial Board

Dear Readers,

We are proud to bring you another informative print issue of the Dartmouth Undergraduate Journal of Science. Contained within this issue are a variety of types articles, including exposés of important of scientific phenomena, descriptions of important diseases, reviews of recent scientific research, an opinion piece, an original research article, and a submission from ISEC, Dartmouth's International Essay Competition for High School Students. These articles fall under the general topic of Assembly, a broad theme allowing writers to describe virtually any scientific system involving "assembly" of parts.

Senior staff writer Dylan Cahill starts this issue off with an examination of cilia and flagella, and how their disrupted function can lead to disease. Paul Harary follows with an analysis of the potential of antibody-drug conjugates in cancer therapy. Then, I examine an exciting topic in molecular biology: click chemistry as a means of DNA synthesis. Next, moving away from the strictly scientific point of view, Sophia Koval investigates the ethical aspects of vaccinations, in light of herd immunity. Then, Nishi Jain delves into the science behind memory, focusing on hippocampal neural assemblies.

In an opinion piece, Freshman Nick Awetschenko describes the ethical regulation of medical experiments on humans. Jared D. Litchman follows with a mathematical research article looking at the Mouhefanggai and Cavalieri's Pinciple. Lastly, high school student Sebastian Jeon (the Winner of ISEC 2017) writes in the intersection of Biology and Computer Science as he examines potential applications of Quantum Computing in solving environmental problems.

This Fall issue represents the culmination of our entire staff's hard work this term. Thank you for reading, and we hope you enjoy.

Sincerely,

Kevin Kang
Editor-In-Chief

The Dartmouth Undergraduate Journal of Science aims to increase scientific awareness within the Dartmouth community by providing an interdisciplinary forum for sharing undergraduate research and enriching scientific knowledge.

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